

SAN JUAN RIVER BASIN

09379060 LUKACHUKAI CREEK TRIBUTARY NEAR LUKACHUKAI, AZ

LOCATION.--Lat 36°28'10", long 109°24'20", Apache County, Hydrologic Unit 14080204, at Navajo Highway 12, 6.8 mi southeast of Round Rock, and 10 mi northwest of Lukachukai.

DRAINAGE AREA.--1.37 mi².

Annual peak discharges

Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes	Water year	Date	Annual peak discharge (ft ³ /s)	Discharge codes
1963	08-31-63	15		1970	10-04-69	36	
1964	07-31-64	33		1971	08-00-71	3.0	ES
1965	01-06-65	227		1972	00-00-72	0	
1966	07-31-66	10	ES	1973	00-00-73	20	
1967	00-00-67	0		1974	02-21-74	10	
1968	08-00-68	30		1975	00-00-75	1.0	ES
1969	07-18-69	49		1976	00-00-76	43	

Magnitude and probability of instantaneous peak flow based on period of record 1963-76

Discharge, in ft ³ /s, for indicated recurrence interval in years, and exceedance probability, in percent					
2 50%	5 20%	10 10%	25 4%	50† 2%	100† 1%
17.9	46.8	79.5	143	210	301
Weighted skew	(logs) =	0.26			
Mean	(logs) =	1.27			
Standard dev.	(logs) =	0.48			

† Reliability of values in column is uncertain, and potential errors are large.

Basin characteristics

Main channel slope (ft/mi)	Stream length (mi)	Mean basin elevation (ft)	Forested area (percent)	Soil index	Mean annual precipitation (in)	Rainfall intensity, 24-hour	
						2-year (in)	50-year (in)
72.2	2.4	5,820	0.0	3.0	9.8	1.2	2.6

